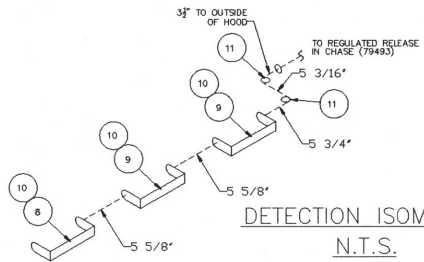
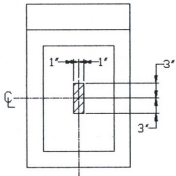


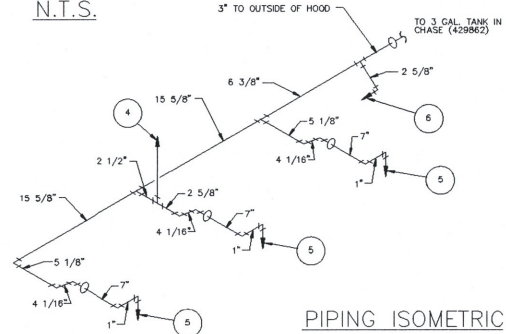
PLAN VIEW



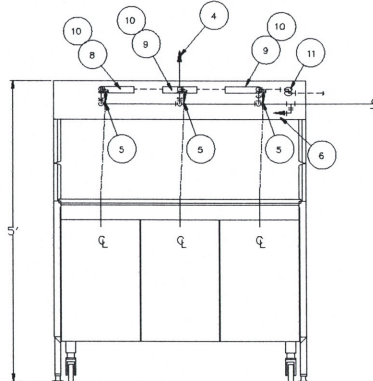
DETECTION ISOMETRIC  
N.T.S.



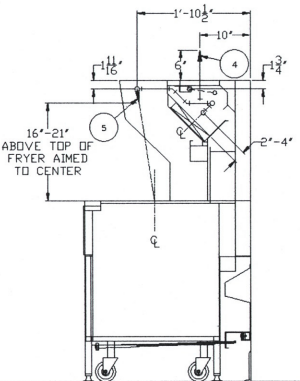
290 NOZZLE POSITIONING  
DETAIL (FRYER)



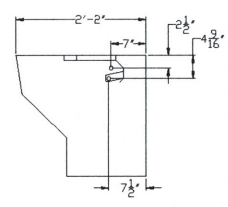
PIPING ISOMETRIC  
N.T.S.



FRONT ELEVATION



RIGHT END



HOOD PENETRATION DETAIL

ITEM	ELEC QTY	GAS QTY	PART No.	DESCRIPTION
** 1	1	1	79499	DEM REG RELEASE/BACKET ASSEMBLY
** 2	1	1	429862	33 GAL. TANK
** 3	1	1	79376	33 GAL. ANSULUX Low pH
** 4	1	1	419327	2V NOZZLE
** 5	3	3	44335/18964	290 NOZZLE
** 6	1	1	419325	3V NOZZLE
** 7	1	1	07492/42344/18928	CARBTRIDGE
** 8	1	1	417368	TERMINAL DETECTOR PACKAGE
** 9	2	2	417639	SERIES DETECTOR PACKAGE
** 10	3	3	415739	FUSIBLE LINK, TYPE K 1/80FT
** 11	2	2	415741	FUSIBLE LINK, TYPE K 3/80FT (HIGH EFFICIENCY < 100K BTU)
** 12	1	1	417743	FUSIBLE LINK, TYPE K 450FT (LOW EFFICIENCY > 100K BTU)
** 13	2	2	423250	PULLEY ELBOW ASSEMBLY (FOR 1/2" EMT)
** 14	1	1	54011	REMOTE PULL STATION ASSEMBLY
** 15	1	1	423879	SNAP ACTION SWITCH - RPDT
** 16	1	1	55601	1" ANSUL MECHANICAL GAS VALVE
** 17	1	1	427569	PULLEY TEE
** 18	2	2	79007	HOSE ACTIVATION

NOTE: THE FIRST NUMBER IN ANY NOZZLE DESIGNATION INDICATES THE FLOW NUMBER OF THE NOZZLE.

OPTIONAL REMOTE PULL STATION NOTES:

THE FOLLOWING SPECIFICATIONS ARE FOR ADDITIONAL REMOTE PULL STATIONS WHERE CODES APPLY:

1. WHEN PROVIDING INSTALLATION MATERIAL FOR EXTRA REMOTE PULL STATIONS, USE ONLY 1/2" EMT CONDUIT, COMPRESSION FITTINGS AND P/N 423250 PULLEY ELBOWS.
2. ALL EXISTING PULL STATIONS WILL REMAIN INSTALLED AND CONNECTED ON CHASE.
3. RIGIDLY FASTEN ALL CONDUIT. WHEN BRACKETING IN THE ATIC SPACE, REGARD FUTURE SERVICE (BY OTHER TRADES) REQUIREMENTS. TAKE PRECAUTIONS THAT PREVENT THE CONDUIT FROM BEING SUBJECT TO DAMAGE.
4. ROUTE CONDUIT AS DIRECTLY AS POSSIBLE FROM THE OPTIONAL REMOTE PULL STATION TO THE LOCATION (IN CHASeways) NOTED ON DRAWING R02-536-110 FOR EACH STATION.
5. CONDUIT IS TO BE ROUTED THROUGH THE EQUIPMENT TO THE AUTOMAN PER THE DETAILS ON THIS SHEET AND DRAWINGS R02-536-110.

GENERAL NOTES:

1. THIS INSTALLATION IS TO BE MADE IN ACCORDANCE WITH THE R-102, UL300 INSTALLATION MANUAL AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
2. ALL PIPE LENGTHS TO BE FIELD VERIFIED.
3. THESE DRAWINGS MAY BE USED TO SECURE APPROVAL FROM THE AUTHORITY HAVING JURISDICTION.
4. IT IS NECESSARY THAT ALL PIPE FITTINGS AND NOZZLES BE WRENCH TIGHTENED AND SECURELY SUPPORTED AND THAT ALL NOZZLES ARE PROPERLY AIMED AS INDICATED IN THE R-102 INSTALLATION MANUAL.
5. THE WIRE ROPE FOR THE DETECTOR AND REMOTE PULL STATION AND MECHANICAL GAS VALVE IS TO BE INSTALLED BY AN AUTHORIZED AND FACTORY TRAINED DISTRIBUTOR OR SERVICE REPRESENTATIVE.
6. THIS INSTALLATION IS TO BE INSPECTED, PUT INTO OPERATION AND CERTIFIED BY AN AUTHORIZED AND FACTORY TRAINED DISTRIBUTOR OR SERVICE REPRESENTATIVE.
7. ELECTRICAL CONTACTS AND WIRING FOR APPLIANCE SHUT OFF TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8. PIPING AND CONDUIT HOOD PENETRATIONS TO BE WELDED.
9. 165 DEG. F. FUSIBLE LINK TO BE USED WITH ELECTRIC FRYERS ONLY.
10. 280 DEG. F. FUSIBLE LINKS TO BE USED ON ALL HIGH EFFICIENCY GAS FRYERS OF 100,000 BTU OR LESS, PER FULL VAT.
11. 450 DEG. F. FUSIBLE LINKS TO BE USED ON ALL LOW EFFICIENCY GAS FRYERS OF OVER 100,000 BTU PER FULL VAT.
12. THIS DRAWING IS FOR USE WITH A RIGHT HANDED CHASE. FOR LEFT HANDED CHASE USE A MIRRORRED IMAGE OF THIS DRAWING.
13. DIMENSIONS MAY VARY FROM SHOWN ±1 INCH.

PIPING NOTES:

1. PIPE SHALL BE 3/8" SCHEDULE 40 BLACK IRON, CHROME PLATED OR STAINLESS STEEL.
2. PIPE ENDS SHALL BE REAMED AND BLOWN CLEAR OF CHIPS AND SCALE BEFORE ASSEMBLY. INSIDE OF PIPE AND FITTINGS MUST BE FREE OF OIL AND DIRT.
3. PIPING DIMENSIONS GIVEN ARE FROM CENTER TO CENTER OF FITTINGS.
4. FINAL NOZZLE LOCATION MAY NOT VARY FROM LOCATION SHOWN.
5. ADD UNIONS AS NEEDED.
6. ANSUL AUTOMAN / TANK LOCATED IN CHASE.
7. ALL PIPE CONNECTIONS MUST USE TEFLON TAPE ON THE MALE THREADS ONLY. MAKE CERTAIN TAPE DOES NOT COVER LAST THREAD ON PIPE END.
8. MAKE CERTAIN THAT THERE IS A MINIMUM OF 6" (SIX FEET) OF PIPE BETWEEN THE AGENT TANK AND ANY NOZZLE PROTECTING A FRYER.

CONDUIT NOTES:

1. CONDUIT RUNS ARE DIMENSIONED CENTER TO CENTER OF CONDUIT, EXCEPT:
  - A) TO FACE(S) OF DETECTOR BRACKET(S)
  - B) TO TOP SURFACE OF AUTOMAN
  - C) TO BACK OF MANUAL PULL PAN
  - D) TO SURFACE OF GAS VALVE BODY
2. ○ SHOWS LOCATION FOR PULLEY COVER SCREWS
- SHOWS BACKSIDE OF PULLEY ELBOW
- \*\*\* 3. QUANTITY FOR DETECTION LINE IN HOOD ONLY.

THIS DESIGN IS IN COMPLIANCE WITH UL 300, NFPA 96 & NFPA 17A

McDONALD'S. PROJECT UH 2008/R-102

CHN	2/23/08	CHN	Changed fryer protection to 290 nozzles	CHN	2/23/08
ADW	07/01/08	ADW	REMOVED HEIGHT FROM NOZZLE POSITIONING	ADW	07/01/08
ADW	03/10/08	ADW	CHANGED MODEL FROM 2002 TO 2008	ADW	03/10/08

DATE: 6/12/03 SCALE: 1"=12" DRAWING NUMBER: R02-519-112  
 DWG: JPB CHD: JPB APPD: JPB  
 1 OF 1

ANSLUL. ANSUL FIRE PROTECTION  
 MARRIETTE, GA 30145-2542

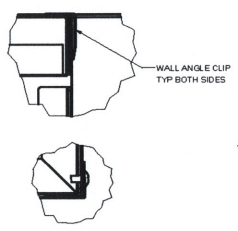
THIS DRAWING AND THE DATA CONTAINED HEREIN ARE THE PROPERTY OF ANSUL. FIRE PROTECTION AND SHALL BE KEPT CONFIDENTIAL TO THE PROPERTY OF ANSUL. FIRE PROTECTION. NO PART OF THIS DRAWING OR THE DATA CONTAINED HEREIN SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AUTHORIZATION OF THE COMPANY.



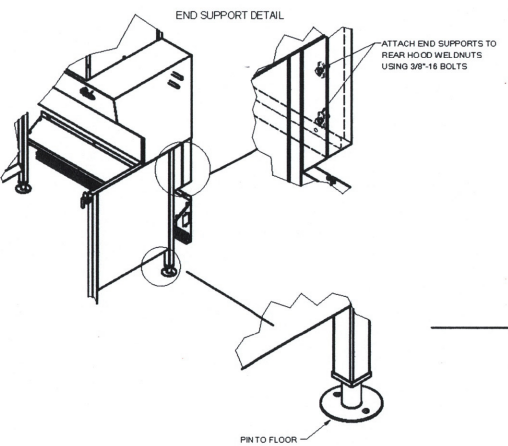
REV.	DESCRIPTION	MODIFIED	DATE	ECO.
0	Update of high temperature gasket model to #397HT	FAF 384	6/22/2017	PSWR03976

- INSTALLATION GUIDE LINES**
1. MOUNT ELECTRICAL RACEWAY 6-1/4" A.F.F. FROM BOTTOM OF UNISTRUT.
  2. MOUNT SCREWS THRU UNISTRUT.
  3. SLIDE ALL LOCKING ROD ASSEMBLIES INTO UNISTRUT.
  4. MOUNT UTILITY CHASE TO WALL.
  5. MOUNT POWER BOX ON BOTTOM OF CHASE, @ 6" A.F.F.
  6. WIRE ELECTRICAL RACEWAY TO POWER BOX.
  7. MOUNT GAS MANIFOLD THRU LOCKING ROD BRACKET.
  8. RUN ELECTRICAL CONDUIT AND GAS PIPE (IF REQUIRED) DOWN UTILITY CHASE.
  9. CONNECT ELECTRICAL WIRE FROM ELEC. PANEL TO TERMINAL STRIP IN POWER BOX.
  10. CONNECT GAS MANIFOLD TO GAS SUPPLY LINE (IF REQUIRED).
  11. MOUNT OFFSET WALL CLIP ON WALL @ 58" A.F.F.
  12. ATTACH END SUPPORT ASSEMBLIES TO HOOD.
  13. HANG HOOD ON OFFSET WALL CLIP AND ADJUST BASE HOOD SUPPORT LEGS TO LEVEL HOOD, HOLDING TOP OF HOOD 2 60" A.F.F.
  14. FIN FLANGED FEET TO FLOOR.
  15. ATTACH TRANSITIONS DUCT TO HOOD.
  16. MAKE DUCT WORK CONNECTION AS REQUIRED PER LOCAL CODE.
  17. CONNECT FIRE SUPPRESSION SYSTEM IN HOOD TO SYSTEM IN UTILITY CHASE.
  18. MOUNT FASCIA KIT BACK PANEL TO WALL AND ASSEMBLE.
  19. ATTACH FLUE BOX STAND OFF TO REAR OF GRILL.
  20. ATTACH GREASE CAN SLIDES TO SIDE OF GRILL.
  21. SLIDE GRILL UNDER HOOD AND SECURE WITH LOCKING RODS.

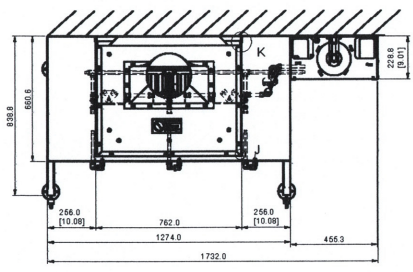
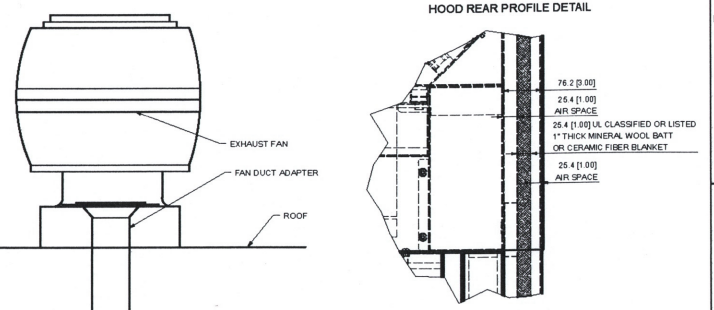
**FASCIA ASSEMBLY DETAIL**



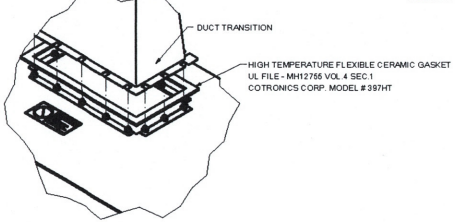
**END SUPPORT DETAIL**



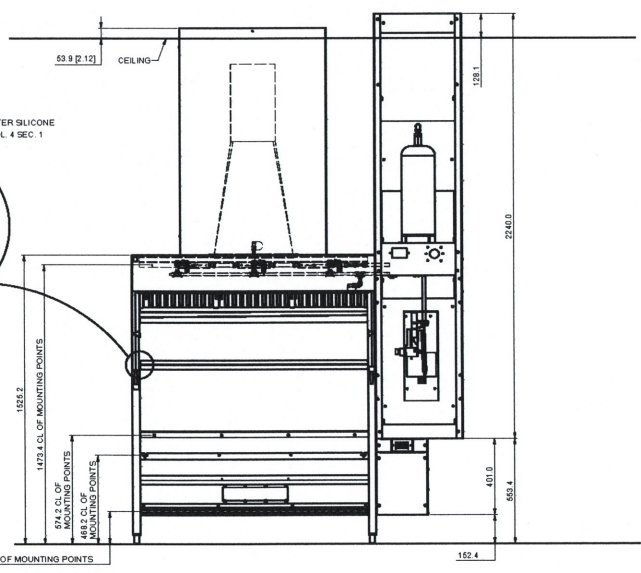
**HOOD REAR PROFILE DETAIL**



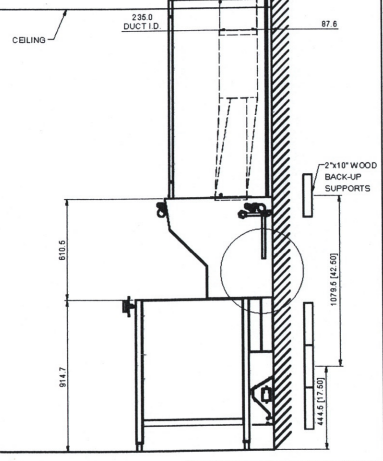
**DUCT TRANSITION DETAIL**



**HI-TEMP ACCESS DOOR COMPONENT HARDWARE # ACC-10X8 LOCATED PER LOCAL CODES**



GASKET HI TEMP PAWIL  
TEMP RATING 305-400°F, 80 DUROMETER SILICONE  
SIMOLEX #4750, UL FILE - MH12756 VOL. 4 SEC. 1

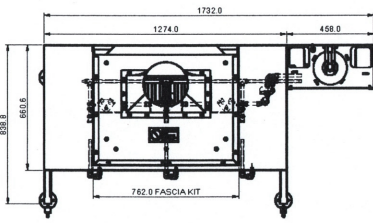


Installation/Permit Drawing 50" Hood 3-VAT


<b>PRINTE</b>	DATE: 6/22/17	SCALE: 1/8" = 1'-0"
Project: Fire Protection Systems	Client: AS NOTED	Drawn: MM
Checked: D	Approved: D	Project No: 19005142

Global B 19005142

SHEET 1 OF 2



DUCT DIA 9-1/4" I.D. 3 VAT  
625 CFM ELEC  
700 CFM GAS  
CFM/FT HOOD 173 CFM  
DUCT VELOCITY 1630 FPM  
FILTER VELOCITY 255 FPM  
HOOD STATIC PRESSURE (GAS) 0.37



**McDONALD'S CORPORATION**  
OAK BROOK, ILLINOIS 60521

EQUIP. I.D. **EXHAUST HOOD: UH SERIES**

MANUF. I.D. **FP#3** SERIAL NUMBER

MANUF EQUIP. I.D. **50" UH** MANUF. DATE

**MINIMUM DESIGN EXHAUST AIR FLOW**

LENGTH OF HOOD	WITH FRYER AND/OR 2-PLATEN GRILL	WITH FRYER AND/OR 3-PLATEN GRILL
25" (660.4mm)	128 (12)	128 (12)
34-1/2" (876.3mm)	143 (13.3)	143 (13.3)
35 - 1/8" (889 - 27.10mm)	156 (15.5)	156 (15.5)
133-3/4" (3397mm)	132 (12.3)	166 (15.5)

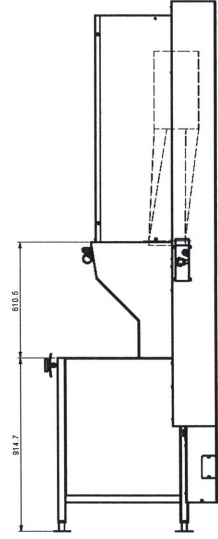
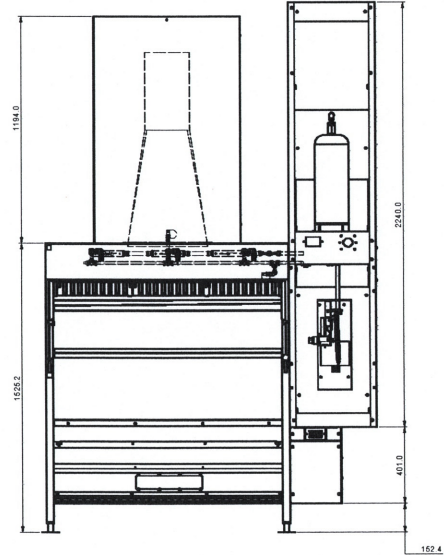
FOR USE OVER COMMERCIAL GAS OR ELECTRIC COOKING EQUIPMENT UP TO 400°F (204°C)  
 - TOP PLATEN OF CLAMHELL GRILL MAY HAVE MAX COOKING SURFACE OF 425"² (27.6m²)  
 - 22" (558.8mm) MAXIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD  
 - 16" (406.4mm) MINIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD  
 - 2 1/4" (57.1mm) MINIMUM HOOD OVERHANG FROM EDGE OF COOKING SURFACE  
 - 16 1/4" (412.8mm) MAXIMUM HOOD SETBACK FROM EDGE OF COOKING SURFACE  
 - THESE HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE  
 - WHEN A GRILL IS OPERATED UNDER THE HOOD, AN EXTENSION SIDE PANEL (REMOVABLE OR INTEGRAL) MUST BE MOUNTED AT WHICH EVER END(S) OF HOOD IS ADJACENT TO THE GRILL(S)  
 - ONLY THE REMOVABLE SIDESHIRTS WILL BE INDIVIDUALLY MARKED AS FOLLOWS:  
 UH SERIES GRILL/RH OR LH  
 - THESE HOOD MUST BE PER LOCAL CODES

MANUFACTURER'S NAME:

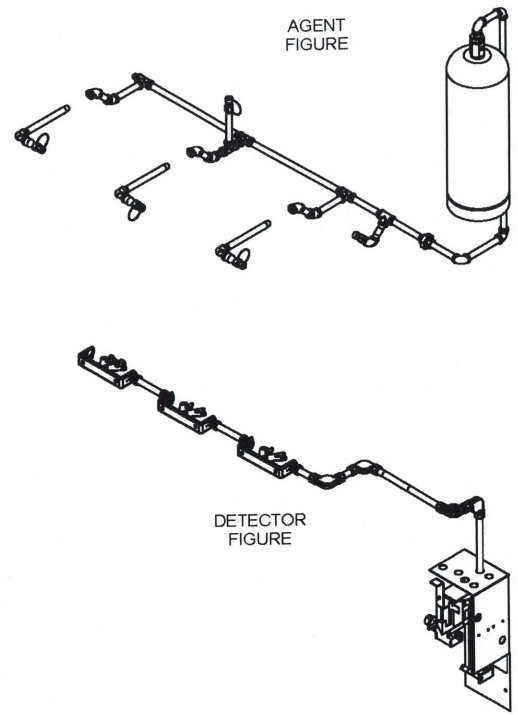
DALLAS, TX HKD  
LAGUNA PHILIPPINES FAB  
SAN LUIS POTOSI, MEXICO FRM  
FAYETTEVILLE, TN FPG

COA #6535  
EXHAUST HOODS WITHOUT EXHAUST DAMPERS


19005083 A 4001094



- NOTES:
- 16 GA S/S MATERIAL USED FOR HOOD EXTERIOR
  - 16 GA GALVANEAL MATERIAL USED FOR HOOD BACK
  - FILTER BAFFLE:  
APPROVED FILTERS TO  
UL STANDARD 1046
  - EXHAUST HOOD:  
ETL FILE 100105372SAT-001
  - UTILITY CHASE & RACEWAY:  
UL FILE E163328 VOL.1, SEC.3
  - HOOD COMPLIES WITH NSF STANDARD 2
  - ELECTRICAL CONNECTIONS BY LOCAL ELECTRICIANS.  
GAS PIPING BY LOCAL PLUMBER  
ANSUL CONNECTIONS AND STARTUP BY CERTIFIED ANSUL REP.
  - HIGH TEMP CERAMIC GASKET MODEL 397HT



**Installation/Permit Drawing 50" Hood 3-VAT**

 Praxair Inc. 10000 Praxair Drive, Dallas, TX 75243 Praxair is a registered provider of continuing education for ASHRAE members.	DATE: 2 APR 2017 1:02 PM DRAWN BY: JMM	REVISION: 001 PROJECT: 19005142	SHEET: 2 OF 2
	AS NOTED UNIT: MM DIM: D	DESIGN: Global JOB: B PER NUMBER: 19005142	DRAWN BY: JMM